

AMENDMENTS TO THE SPECIFICATION

Please replace the title with the following title rewritten in amendment format:

INTERACTIVE VIDEO APPARATUS AND METHOD OF OVERLAYING
THE CAPTION ON THE IMAGE USED BY THE ~~SAID~~-APPARATUS

Please replace Paragraph [0007] with the following paragraph rewritten in amendment format:

[0007] The invention provides a caption overlaying method used on an interactive video equipment, in which information of a caption to be generated set by a user is received by a control layer, comprising:

A. providing a caption generating module, receiving the information of the caption to be generated from the control layer, and generating a caption image with a transparent background according to the ~~said~~-received information;

B. providing a caption overlaying module, overlaying the ~~said~~-caption image on a digital service image, and obtaining an image with the caption to display at a local side and/or ~~transmit~~ transmitting the image which comprises the caption image and the digital service image as one object to a remote side.

Please replace Paragraph [0008] with the following paragraph rewritten in amendment format:

[0008] It is better that the information of the caption to be generated that the control layer transmits to the caption generating module comprises internal codes of all

characters of the ~~said~~-caption, a position information of the ~~said~~-caption, a size information of the ~~said~~-caption and a color information of the ~~said~~-caption.

Please replace Paragraph [0009] with the following paragraph rewritten in amendment format:

[0009] It is better that the information of the caption to be generated that the control layer transmits to the caption generating module comprises internal codes of all characters of the ~~said~~-caption to be generated, and the internal code is generated with the steps of using a software for generating a character database; selecting a vector font; according to a required character size, displaying a character one by one on a PC screen with a software, and then recording the display result as a dot-matrix image, and storing the dot-matrix image in a specific format as a character database file.

Please replace Paragraph [0010] with the following paragraph rewritten in amendment format:

[0010] It is better that the information of the caption to be generated that the control layer transmits to the caption generating module comprises color information of the ~~said~~-caption;

Please replace Paragraph [0011] with the following paragraph rewritten in amendment format:

[0011] the caption generating module performs setting or changing the color of the characters according to the color information of the ~~said~~-caption and keeping the background of the caption image transparent.

Please replace Paragraph [0012] with the following paragraph rewritten in amendment format:

[0012] It is better that step A comprises, after the caption generating module has received the ~~said~~-caption information from the control layer, reading dot-matrix images of all the characters, and combining the dot-matrix images with the transparent background according to a display position and content of the caption selected at the control layer.

Please replace Paragraph [0013] with the following paragraph rewritten in amendment format:

[0013] It is better that the control layer may select to overlay the caption image at the local side or at the remote side. When selecting at local side, the caption image is overlaid on the locally received service image after decoding and then outputting to the local side for display. When selecting at remote side, the caption image is overlaid on the locally service image to be transmitted before encoding, and then the image which comprises the caption image and the digital service image was encoded and transmitted to the remote side as one object after encoding.

Please replace Paragraph [0014] with the following paragraph rewritten in amendment format:

[0014] The invention also provides interactive video equipments that have a control layer to receive information of a caption to be generated set by a user. The interactive video equipment includes a caption generating module and a caption overlaying module. The caption generating module receives the information of the caption to be generated from the control layer, and generates a caption image with a transparent background according to the ~~said~~-received information;

Please replace Paragraph [0015] with the following paragraph rewritten in amendment format:

[0015] the caption overlaying module overlays the ~~said~~-caption image on a digital service image, and obtains an image with the caption to display at a local side and/or transmit the image which comprises the caption image and the digital service image is transmitted as one object to a remote side.

Please replace Paragraph [0016] with the following paragraph rewritten in amendment format:

[0016] It is better that the caption generating module reads dot-matrix images of all the characters, and combines the dot-matrix images with the transparent background according to a display position and content of the caption selected at the control layer after having received the ~~said~~-caption information from the control layer.

Please replace Paragraph [0019] with the following paragraph rewritten in amendment format:

[0019] the ~~said~~ first caption overlaying module is in an encoder, and locates along a service channel which is in front of an image-encoding module;

Please replace Paragraph [0020] with the following paragraph rewritten in amendment format:

[0020] the ~~said~~ first caption generating module is in the encoder and connects with the ~~said~~ first caption overlaying module;

Please replace Paragraph [0021] with the following paragraph rewritten in amendment format:

[0021] the ~~said~~ second caption overlaying module is in a decoder, and locates along a service channel which is behind an image-decoding module;

Please replace Paragraph [0022] with the following paragraph rewritten in amendment format:

[0022] the ~~said~~ second caption generating module is in the decoder and connects with the ~~said~~ second caption overlaying module. Second caption-generating module is set in the decoder and connected with second caption-adding module.